BRUHAT BENGALURU MAHANAGARA PALIKE

PRE-MEASUREMENT

MEASUREMENT SHEET

Name of work: Improvements to Roads and Drains at Gangamma Gudi and Surrounding areas in Ward No. 13 (Doddabommasandra).

Estimated Cost : Rs. 25.00 Lakhs

Head of Account : P3726 Zonal Public Works - POW Works

Job Code: 013-23-000009

Name of Agency: Sri. Suresh. U, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT nagar, Bengaluru - 560032.

Work order No: BBMP/EE/BTP/WO/132/2022-23 D: 02-03-2023.

	Measurements Recarded on :	23-03-2023					
Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.						
	New Drain						
	Gangamma Gudi Church Back Side Main Road						
	From Gangamma Gudi Main Road to BEL Circle Main Road upto 2nd Cross	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	5.20	1.00	1.00	5.20	
	From 2nd Cross to BEL Circle Main Road						
		1	12.20	1.00	1.00	12.20	
		1	12.00	1.00	1.00	12.00	
		1	5.00	1.00	1.00	5.00	
	From # 135 to Garage	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	13.30	1.00	1.00	13.30	
	2nd Cross Gangamma Gudi N/S						
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	1.20	1.00	1.00	1.20	
	2nd Cross Gangamma Gudi S/S						
		1	15.00	1.00	1.00	15.00	
		1	3.00	1.00	1.00	3.00	

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	2nd B Cross Gangamma Gudi E/S						
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	9.70	1.00	1.00	9.70	
	2nd B Cross Gangamma Gudi W/S						
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	9.70	1.00	1.00	9.70	
		Total Qty =				**294.30**	
		Qty Ltd to Tende Qty =				**290.00**	Cum

Assistant Engineer
Ward No. 13, Doddabommasandra

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Measurements Recarded on :	12-04-2023					
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.						
	New Drain						
	Gangamma Gudi Church Back Side Main Road						
	From Gangamma Gudi Main Road to BEL Circle Main Road upto 2nd Cross	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	5.20	1.00	0.15	0.78	
	From 2nd Cross to BEL Circle Main Road						
		1	12.20	1.00	0.15	1.83	
		1	12.00	1.00	0.15	1.80	
		1	5.00	1.00	0.15	0.75	
	From # 135 to Garage	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	13.30	1.00	0.15	2.00	
	2nd Cross Gangamma Gudi N/S						
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	1.20	1.00	0.15	0.18	
	2nd Cross Gangamma Gudi S/S						
		1	15.00	1.00	0.15	2.25	
		1	3.00	1.00	0.15	0.45	
		1	13.00	1.00	0.15	1.95	
	2nd B Cross Gangamma Gudi E/S						
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	9.70	1.00	0.15	1.46	
	2nd B Cross Gangamma Gudi W/S						
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	9.70	1.00	0.15	1.46	
		Total Qty =				**44.15**	
		Qty Ltd to Tende Qty =				**43.50**	Cum

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on :	28-04-2023					
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)						
	New Drain						
	Raft						
	Gangamma Gudi Church Back Side Main Road						
	From Gangamma Gudi Main Road to BEL Circle Main Road upto 2nd Cross	1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	5.20	0.90	0.15	0.70	
	From 2nd Cross to BEL Circle Main Road						
		1	12.20	0.90	0.15	1.65	
		1	12.00	0.90	0.15	1.62	
		1	5.00	0.90	0.15	0.68	
	From # 135 to Garage	1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	13.30	0.90	0.15	1.80	
	2nd Cross Gangamma Gudi N/S						
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	1.20	0.90	0.15	0.16	
	2nd Cross Gangamma Gudi S/S						
		1	15.00	0.90	0.15	2.03	
		1	3.00	0.90	0.15	0.41	
		1	13.00	0.90	0.15	1.76	
	2nd B Cross Gangamma Gudi E/S						
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	9.70	0.90	0.15	1.31	
	2nd B Cross Gangamma Gudi W/S						
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	9.70	0.90	0.15	1.31	
	Side Walls						
	Gangamma Gudi Church Back Side Main Road						

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	5.20	0.15	0.60	0.94	
	From 2nd Cross to BEL Circle Main Road						
		2	12.20	0.15	0.60	2.20	
		2	12.00	0.15	0.60	2.16	
		2	5.00	0.15	0.60	0.90	
	From # 135 to Garage	2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	13.30	0.15	0.60	2.39	
	2nd Cross Gangamma Gudi N/S						
		2	15.00	0.15	0.55	2.48	
		2	15.00	0.15	0.58	2.61	
		2	1.20	0.15	0.58	0.21	
	2nd Cross Gangamma Gudi S/S						
		2	15.00	0.15	0.55	2.48	
		2	3.00	0.15	0.57	0.51	
		2	13.00	0.15	0.55	2.15	
	2nd B Cross Gangamma Gudi E/S						
		2	15.00	0.15	0.58	2.61	
		2	15.00	0.15	0.57	2.57	
		2	9.70	0.15	0.59	1.72	
	2nd B Cross Gangamma Gudi W/S						
		2	15.00	0.15	0.57	2.57	
		2	15.00	0.15	0.58	2.61	
		2	9.70	0.15	0.58	1.69	
		Total Qty =				**91.40**	
	Total	**Qty Ltd to Tende Qty =**				**91.35**	Cum

Assistant Engineer
Ward No. 13, Doddabommasandra

Assistant Executive Engineer
Vidyaranyapura Sub Division

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Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Measurements Recarded on :	28-04-2023					
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.						
	U Shape Drains	**No**	**L**	**Mtrs**	**Kg/m**	**Kgs**	
	From Gangamma Gudi Main Road to 2nd Cross						
	10 mm dia	803	2.10	1686.30	0.62	1045.51	
	8 mm dia	16	80.20	1283.20	0.39	500.45	
	Total					**1545.95**	
	From 2nd Cross to Gaurage						
	10 mm dia	123	2.10	258.30	0.62	160.15	
	8 mm dia	16	12.20	195.20	0.39	76.13	
	Total					**236.27**	
	10 mm dia	121	2.10	254.10	0.62	157.54	
	8 mm dia	16	12.00	192.00	0.39	74.88	
	Total					**232.42**	
	From # 135 to Garage						
	10 mm dia	434	2.10	911.40	0.62	565.07	
	8 mm dia	16	43.30	692.80	0.39	270.19	
	Total					**835.26**	
	2nd Cross Gangamma Gudi N/S						
	10 mm dia	313	2.10	657.30	0.62	407.53	
	8 mm dia	16	31.20	499.20	0.39	194.69	
	Total					**602.21**	
	2nd Cross Gangamma Gudi S/S						
	10 mm dia	181	2.10	380.10	0.62	235.66	
	8 mm dia	16	18.00	288.00	0.39	112.32	
	10 mm dia	131	2.10	275.10	0.62	170.56	
	8 mm dia	16	13.00	208.00	0.39	81.12	
	Total					**599.66**	
	2nd B Cross Gangamma Gudi E/S						
	10 mm dia	361	2.10	758.10	0.62	470.02	
	8 mm dia	16	39.70	635.20	0.39	247.73	
	Total					**717.75**	
	2nd B Cross Gangamma Gudi W/S						
	10 mm dia	361	2.10	758.10	0.62	470.02	
	8 mm dia	16	39.70	635.20	0.39	247.73	
	Total					**717.75**	
	RCC Drain Total					**5487.29**	Kgs
		Total Qty =				**5.49**	Tonne
		Qty Ltd to Tende Qty =				**5.48**	Tonne

Assistant Executive Engineer